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(54) MANUFACTURE OF BATTERY SEPARATOR AND BATTERY SEPARATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To maintain high liquid absorbing performance, to prevent internal short circuiting and to improve shut-down function manifesting performance and mechanical performance by manufacturing a battery separator by removing sea components from non-woven fabric containing sea-island fiber composed of island components of olefinic resin and sea components of an easy alkali reducing polyester resin.

SOLUTION: Sea components of easy alkali reducing polyester resin have good spinning performance to island components of olefinic resin, and desired sea-island fiber can be obtained. Sea components of non-woven fabric are removed by alkali treatment and heated in order to improve mechanical properties to form a separator. Non-woven fabric may be manufactured by applying treatment to a web containing sea-island fiber, and mechanical performance after removing seat components is improved. It is preferable to manufacture non-woven fabric by adding olefinic fiber binder, in view of mechanical performance, size stability and electric resistance. The binder is constituted of two kinds or more olefinic polymer having the melting point difference $\geq 10^{\circ}$ C, and it is desirable that the polymer having the lower melting point exists on the front surface.

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